

WHAT IS CLAIMED IS:

1. An AC adaptor integral-type household-power-line coupler comprising:
 - a household-power-line power converting/supplying unit connected to a plug unit, for supplying electric power to a communication terminal, said plug unit being employed to be coupled to a household-power-line plug socket;
 - a household-power-line carrier signal coupling unit for inputting/outputting a signal via said plug unit to said communication terminal; and
 - a casing unit containing thereinto both said household-power-line power converting/supplying unit and said household-power-line carrier signal coupling unit.
2. An AC adaptor integral-type household-power-line coupler according to claim 1,
 - wherein said household-power-line power converting/supplying unit is parallel-connected to said household-power-line carrier signal coupling unit.
3. An AC adaptor integral-type household-power-line coupler according to claim 1,
 - wherein a filter unit for removing noise is connected between said plug unit and said household-power-line power converting/supplying unit.
4. An AC adaptor integral-type household-power-line coupler

according to claim 3,

wherein said filter unit passes therethrough a low frequency signal, and owns a high impedance value in a high frequency range.

5. An AC adaptor integral-type household-power-line coupler according to claim 4,

wherein said filter unit passes therethrough a signal having a frequency range lower than, or equal to 500 KHz.

6. An AC adaptor integral-type household-power-line coupler according to claim 4,

wherein said filter unit is a choke coil.

7. An AC adaptor integral-type household-power-line coupler according to claim 4,

wherein said filter unit is an LC filter.

8. An AC adaptor integral-type household-power-line coupler according to claim 1 or 3, further comprising:

a signal synthesizing/separating unit for superimposing/separating a high frequency signal outputted from said household-power-line carrier signal coupling unit to a DC voltage outputted from said household-power-line power converting/supplying unit.

9. An AC adaptor integral-type household-power-line coupler

according to claim 8,

wherein said signal synthesizing/separating unit is a choke coil.

10. An AC adaptor integral-type household-power-line coupler according to any one of claim 1 to claim 3,

wherein said household-power-line carrier signal coupling unit is further comprised of a household-power-line modem for executing both a modulating operation and a demodulating operation; and said household-power-line modem is driven by electric power supplied from said household-power-line power converting/supplying unit.